

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P940147

Luminaire Tested: **GALN-SB3A-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3A-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11711 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

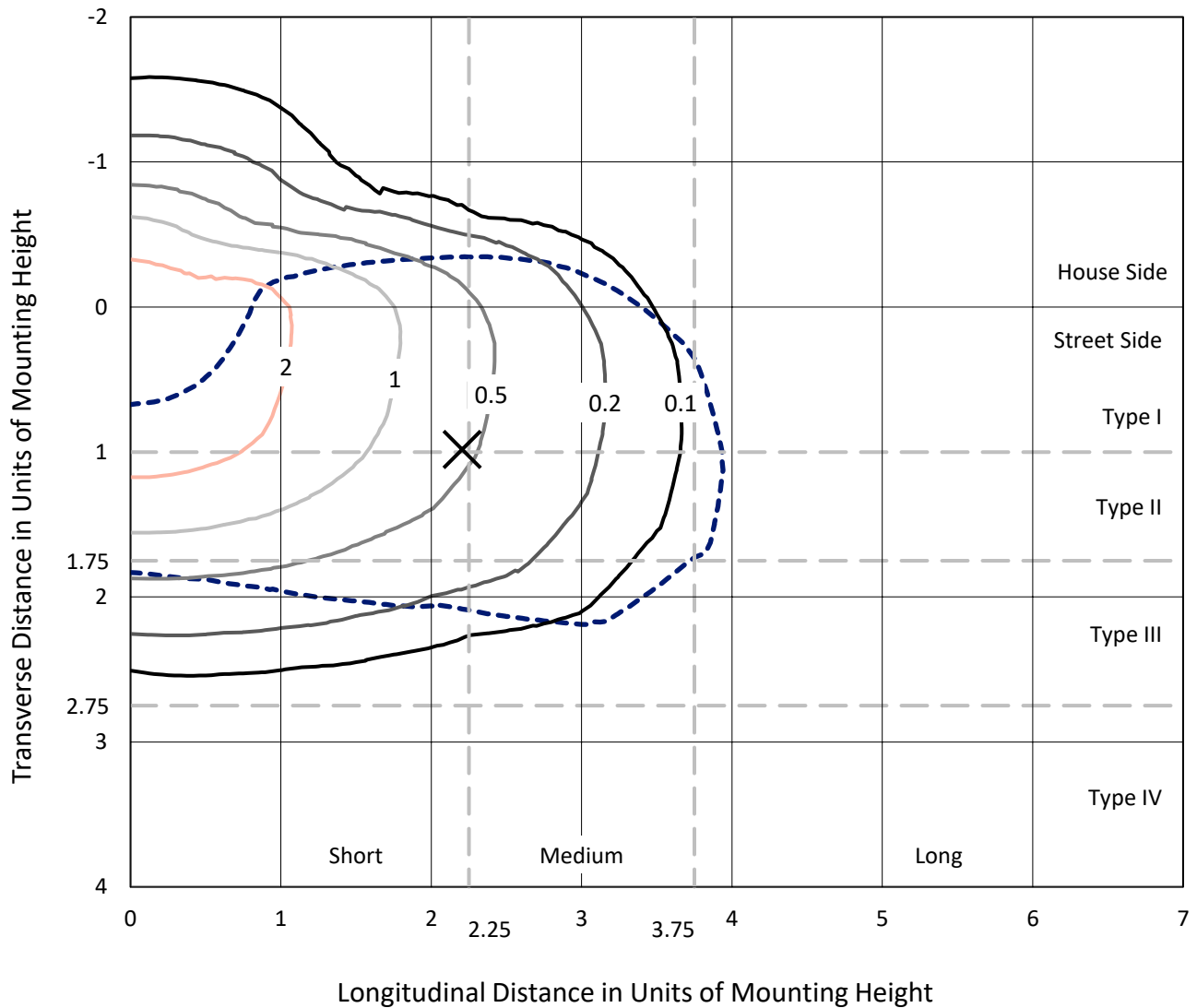
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940147
 CATALOG NUMBER: GALN-SB3A-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

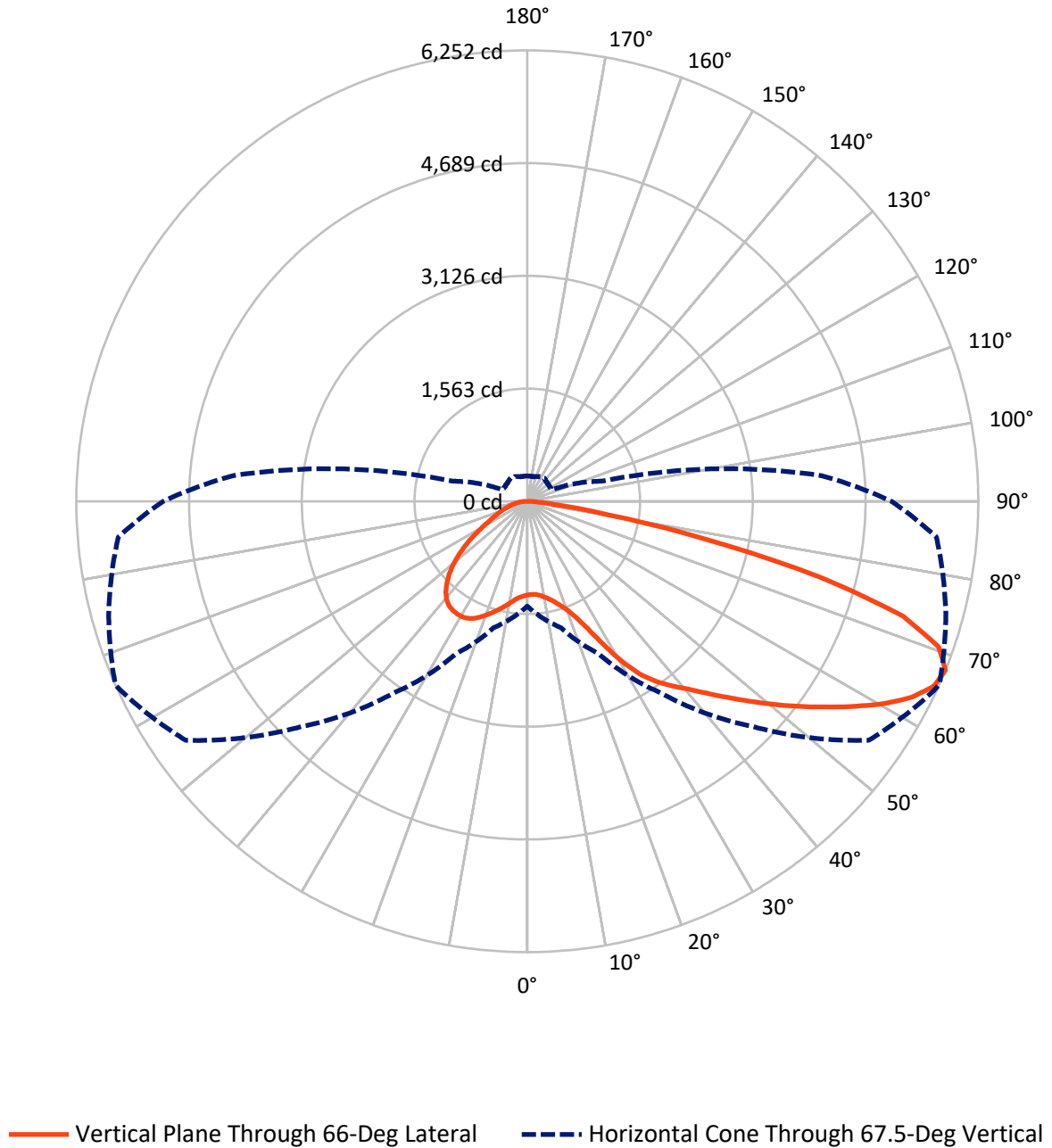
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

REPORT NUMBER: P940147
CATALOG NUMBER: GALN-SB3A-827-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2911.9	0.0	2911.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	8799.1	0.0	8799.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	11711.0	0.0	11711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.1
10°-20°	425.5	3.6
20°-30°	820.1	7.0
30°-40°	1437.9	12.3
40°-50°	2137.7	18.3
50°-60°	2709.7	23.1
60°-70°	2651.4	22.6
70°-80°	1264.7	10.8
80°-90°	135.2	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11711.0	100.0
0°-180°	11711.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940147

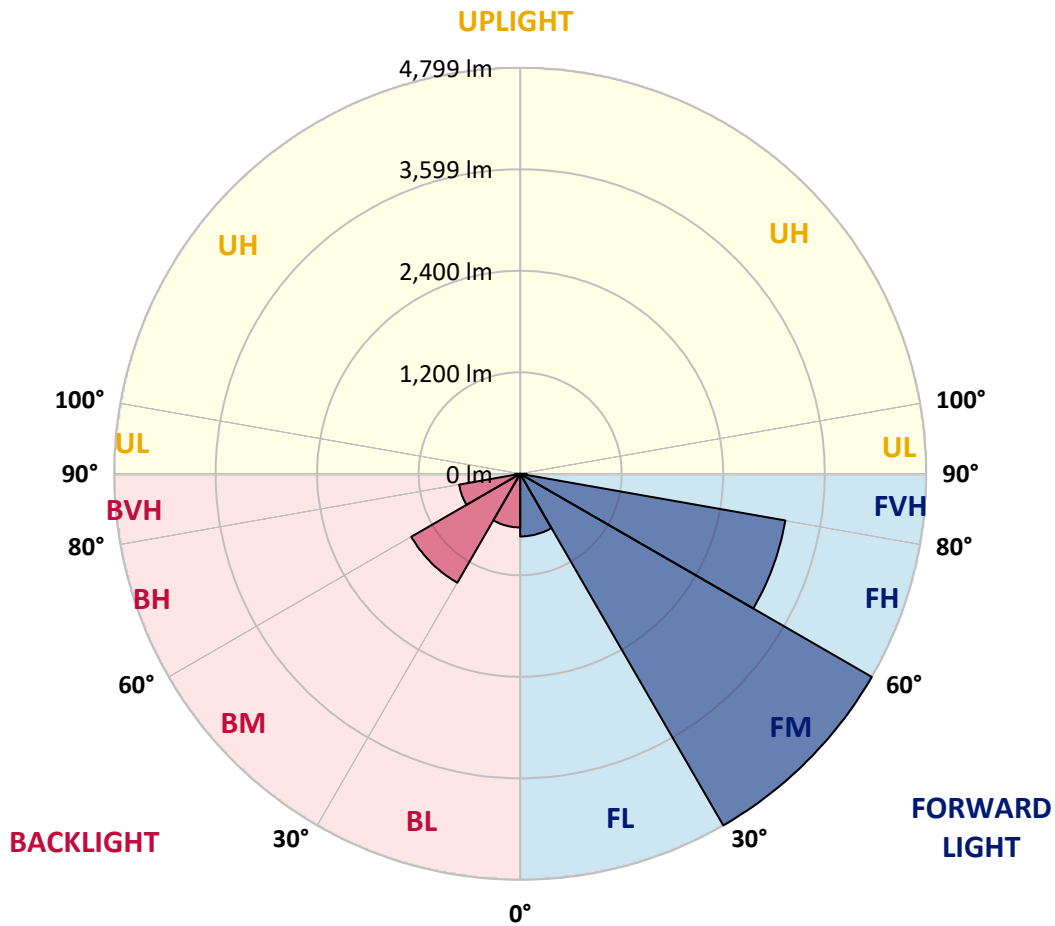
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.0	6.3			
FM (30°-60°)	4799.1	41.0			
FH (60°-80°)	3183.4	27.2			G2/5000
FVH (80°-90°)	76.6	0.7			G1/100
BL (0°-30°)	634.3	5.4	B2/1000		
BM (30°-60°)	1486.3	12.7	B2/2500		
BH (60°-80°)	732.8	6.3	B2/1000		G2/1000
BVH (80°-90°)	58.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P940147

CATALOG NUMBER: GALN-SB3A-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9
2.5°	1285.4	1292.8	1290.9	1287.8	1287.2	1288.4	1290.3	1292.1	1291.5	1294.6
5°	1281.7	1289.1	1288.4	1288.4	1290.9	1295.8	1298.9	1302.0	1298.9	1302.6
7.5°	1284.1	1289.7	1292.1	1294.6	1300.8	1310.0	1317.4	1324.1	1320.4	1324.7
10°	1315.5	1319.8	1322.3	1322.3	1326.6	1337.1	1344.4	1356.7	1353.7	1360.4
12.5°	1372.7	1377.0	1377.0	1374.6	1377.7	1384.4	1386.9	1400.4	1394.9	1406.0
15°	1442.9	1451.5	1444.7	1440.4	1441.7	1448.4	1447.8	1458.3	1452.7	1462.0
17.5°	1520.4	1531.5	1520.4	1519.8	1517.3	1524.7	1525.3	1534.6	1524.7	1531.5
20°	1612.1	1627.5	1618.2	1621.3	1615.8	1618.9	1621.9	1635.5	1620.1	1625.0
22.5°	1741.3	1759.8	1749.9	1761.6	1757.9	1755.5	1754.8	1778.8	1754.8	1756.7
25°	1929.6	1951.7	1934.5	1950.5	1950.5	1958.5	1967.7	1998.5	1958.5	1946.8
27.5°	2207.7	2229.9	2196.0	2205.9	2202.8	2222.5	2212.6	2288.9	2245.9	2226.8
30°	2542.4	2581.8	2517.8	2515.4	2512.3	2543.7	2557.8	2608.3	2564.6	2545.5
32.5°	2904.2	2945.5	2869.2	2847.0	2835.3	2854.4	2842.7	2883.3	2853.2	2823.6
35°	3286.9	3327.6	3255.0	3211.9	3165.1	3125.1	3083.3	3093.7	3065.4	3020.5
37.5°	3648.7	3723.2	3646.3	3600.1	3514.0	3435.9	3318.9	3270.3	3243.9	3202.7
40°	4017.3	4059.8	4001.3	3961.9	3868.4	3746.0	3558.9	3456.2	3420.5	3380.5
42.5°	4288.7	4329.3	4297.9	4270.8	4197.6	4055.5	3813.6	3685.0	3633.4	3588.4
45°	4504.0	4534.2	4514.5	4524.3	4492.9	4355.1	4077.6	3930.6	3877.0	3822.3
47.5°	4590.8	4622.8	4654.2	4712.6	4766.1	4664.6	4361.3	4196.4	4139.8	4083.8
50°	4580.9	4613.5	4704.6	4828.9	4995.0	4961.2	4660.3	4479.4	4427.1	4363.1
52.5°	4502.2	4539.1	4656.0	4862.7	5127.3	5183.3	4964.9	4771.7	4722.5	4646.2
55°	4295.4	4317.6	4492.9	4785.8	5158.7	5338.4	5263.3	5083.0	5033.8	4927.3
57.5°	3912.1	3944.1	4199.4	4578.5	5079.9	5443.6	5525.4	5410.4	5363.0	5209.8
60°	3411.9	3462.9	3755.2	4230.2	4879.4	5443.0	5763.5	5732.2	5692.8	5487.9
62.5°	2845.8	2904.8	3186.0	3738.0	4528.6	5288.5	5912.4	6001.7	5981.4	5744.5
65°	2185.6	2226.2	2506.1	3101.1	3982.9	4956.9	5929.7	6185.6	6189.3	5939.5
67.5°	1455.2	1572.1	1815.1	2327.1	3251.9	4414.8	5778.3	6215.8	6251.5	6006.6
70°	710.1	863.9	1102.0	1512.4	2327.1	3583.5	5382.7	5968.4	6047.8	5810.9
72.5°	294.7	344.6	474.4	746.4	1335.8	2418.1	4587.7	5297.8	5444.8	5148.9
75°	198.7	215.4	271.3	382.7	608.5	1192.5	3308.5	3950.2	4187.1	3888.7
77.5°	153.2	163.7	197.5	267.7	361.8	451.0	1770.8	2380.6	2503.1	2317.2
80°	120.6	128.6	147.7	195.1	256.6	241.2	603.6	1078.6	1149.4	964.2
82.5°	104.6	107.7	105.8	132.3	170.4	140.9	198.1	398.1	439.3	318.7
85°	75.7	84.3	88.0	81.8	90.4	71.4	81.2	140.9	155.1	138.4
87.5°	30.8	45.5	56.0	52.9	33.2	20.3	25.2	41.2	47.4	51.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940147
 CATALOG NUMBER: GALN-SB3A-827-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1298.9	0°	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9
1299.5	2.5°	1300.1	1304.4	1307.5	1311.2	1313.7	1317.4	1324.7	1329.1	1329.7	1332.7
1309.4	5°	1311.8	1318.0	1324.7	1334.6	1345.7	1354.9	1369.0	1378.9	1382.6	1385.7
1333.4	7.5°	1337.1	1345.7	1358.0	1375.2	1391.2	1403.5	1420.7	1432.4	1444.1	1448.4
1371.5	10°	1374.6	1386.9	1404.7	1428.1	1445.3	1461.3	1479.2	1489.0	1500.7	1505.6
1417.0	12.5°	1421.3	1434.3	1457.7	1490.3	1506.3	1517.3	1523.5	1521.0	1523.5	1527.8
1471.8	15°	1474.9	1489.0	1515.5	1550.6	1561.6	1551.8	1538.3	1526.0	1524.1	1525.3
1538.3	17.5°	1538.3	1548.7	1579.5	1609.0	1601.0	1560.4	1530.9	1511.2	1501.3	1498.3
1623.2	20°	1626.9	1626.9	1652.1	1670.5	1617.0	1548.1	1502.0	1470.0	1449.7	1441.0
1738.8	22.5°	1734.5	1724.7	1740.7	1727.8	1613.9	1513.6	1449.7	1394.3	1363.5	1351.2
1900.7	25°	1871.1	1859.4	1855.1	1775.1	1591.8	1458.9	1354.9	1287.8	1260.8	1254.0
2133.9	27.5°	2077.3	2047.7	1991.7	1801.0	1551.2	1372.7	1244.1	1182.0	1166.6	1167.2
2433.5	30°	2351.7	2292.6	2155.4	1805.3	1484.7	1250.9	1130.9	1086.6	1079.2	1082.3
2685.2	32.5°	2605.8	2549.8	2322.8	1785.6	1382.6	1131.5	1029.4	999.9	988.8	992.5
2877.2	35°	2805.2	2789.8	2477.8	1757.9	1257.1	1019.6	938.3	913.1	891.6	886.7
3058.1	37.5°	2993.4	2987.3	2594.1	1719.2	1132.8	940.2	865.1	831.9	800.5	783.3
3258.0	40°	3200.2	3194.0	2670.4	1659.5	1022.6	871.3	799.3	755.6	716.8	685.4
3484.5	42.5°	3432.8	3396.5	2706.7	1573.9	929.1	812.8	745.7	686.7	635.6	606.7
3740.4	45°	3686.9	3605.1	2706.1	1465.0	850.3	759.3	688.5	604.8	557.5	530.4
4003.2	47.5°	3956.4	3804.4	2672.9	1344.4	774.1	700.2	599.9	535.9	504.5	487.9
4288.7	50°	4234.5	3990.9	2616.3	1206.0	695.9	633.1	544.5	500.9	476.9	461.5
4571.7	52.5°	4496.0	4160.1	2548.0	1049.1	616.5	567.9	519.9	486.1	460.9	443.6
4846.1	55°	4739.1	4305.9	2451.4	888.5	551.9	524.2	508.2	479.9	451.0	430.7
5124.9	57.5°	4955.0	4400.6	2284.6	737.7	505.8	494.1	495.9	469.5	436.2	419.0
5399.3	60°	5134.7	4470.2	2037.9	598.1	468.2	464.6	476.9	449.8	411.0	391.3
5631.3	62.5°	5242.4	4468.9	1735.2	489.8	436.2	437.5	451.6	425.2	385.8	367.3
5752.5	65°	5233.2	4359.4	1402.9	419.0	405.5	406.7	425.2	398.1	364.9	353.8
5691.6	67.5°	5047.9	4092.4	1076.2	372.9	371.6	377.2	398.7	379.6	352.0	350.7
5328.5	70°	4546.5	3538.0	775.3	336.0	336.6	344.6	372.9	368.0	345.2	347.6
4480.0	72.5°	3645.7	2697.5	520.5	297.2	297.8	310.7	348.3	358.7	338.4	371.0
3178.7	75°	2428.0	1682.2	334.7	256.0	256.6	273.2	326.7	340.9	320.0	369.8
1653.9	77.5°	1166.6	756.2	242.4	215.4	215.4	230.7	282.4	305.2	272.6	287.3
531.6	80°	403.0	284.3	190.7	173.5	169.8	180.3	238.1	264.6	235.0	216.6
173.5	82.5°	158.7	147.7	153.2	134.8	122.4	129.2	185.2	218.4	172.9	156.3
97.8	85°	91.1	96.0	108.3	89.2	70.8	79.4	136.0	156.9	130.4	115.1
32.0	87.5°	24.6	33.8	49.8	46.1	32.0	33.8	64.6	86.8	75.1	57.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1298.9
1332.1
1385.0
1449.0
1508.1
1529.0
1529.6
1502.6
1439.2
1349.4
1255.2
1169.1
1092.8
997.4
890.3
783.9
688.5
608.5
529.2
484.2
455.9
436.2
422.7
407.9
382.7
361.8
353.2
352.6
347.0
376.0
372.9
263.3
203.0
155.7
117.5
59.7
0.0

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